

DESCRIPTION

S-9300 Bond-Kote® is a single-component, pre-blended product designed for use as a thin-set overlay for concrete surfaces. S-9300 Bond-Kote eliminates the need to remove and replace old, damaged or deteriorated concrete by resurfacing it with a strong, flexible and highly durable coating. S-9300 Bond-Kote is ready-mixed and contains a dry version of S-1100 Liquid Concentrate™ copolymer, a special blend of proprietary components that ensure superior bonding to nearly any substrate. S-9300 Bond-Kote has a proven success record in every type of climate and is unaffected by freeze/thaw conditions and salt treatments when used in the appropriate system. The delamination of waterproofing products is substantially or totally reduced when S-9300 Bond-Kote is used for the base coat in conjunction with S-1300 Pene-Krete®. The product is available as S-9300 Bond-Kote Gray or S-9302 Bond-Kote White. This product can be applied over concrete with a gauge rake at 1/8" thickness and used as a stampable overlay for use with seamless textured mats.

USES

Bond-Kote is a versatile, easy to use material with a variety of uses in residential, commercial and industrial applications. Bond-Kote can be applied by squeegee, broom, sprayer or screed rake to create a multitude of textures and finishes.

1/8" Overlay Stamping	Recreational Surfaces
Interior / Exterior Applications	Highways / Bridges
Floor Leveling / Smoothing	Parking Decks
Concrete Patching / Repairing / Resurfacing	Skate Park Renovation
Spalled / Deteriorated Conditions	Concrete Restoration
Sidewalk Restoration / Resurfacing	Warehouse Floors
Curb / Gutter Resurfacing	Pool Decks
Horizontal / Vertical / Overhead Applications	Swimming Pool Plastering
Pedestrian / Vehicular Traffic Surfaces	Helicopter Landing Pads
Renovation of Gypsum Underlayments	Driveways
Slip-Resistant Surfaces	Loading Docks / Ramps
Asbestos Tile Encapsulation	Masonry Walls
Crack Treatment System	Decorative Surfaces
Spray-Texture / Skip-Trowel Finishes	Damp-proofing Applications
Anywhere a New Concrete Surface is Desired!	



ADVANTAGES

Bond-Kote is extremely versatile for any concrete resurfacing or repair project.

Environmentally friendly and safe	Non-toxic
Ready-mix formula - Just add water!	Water-resistant
Superior bonding capabilities	Salt treatment resistant
Extreme climate resistance	Non-reemulsifiable
Excellent freeze/thaw resistance	Easy to use
Reduces moisture vapor emissions (MVT) through slabs	Highly versatile
Excellent for use as underlayment for other coatings and systems	Fire resistant
Repairs and resurfaces concrete cost effectively	Abrasion resistant
Can eliminate the need to replace concrete	
Flexibility	

CSI RELATED SECTIONS

03 01 30.61 - Resurfacing of Cast-In-Place Concrete	07 11 16 - Cementitious Damp-proofing
03 01 40.61 - Resurfacing of Precast Concrete	07 16 13 - Polymer Modified Cement Waterproofing
03 35 00 - Concrete Finishing	09 61 13 - Slip Resistant Flooring
03 53 00 - Concrete Topping	32 01 26.74 - Concrete Overlays
04 05 00 - Common Work Results for Masonry	32 16 00 - Curbs and Gutters

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SURFACE PREPARATION

Surfaces that are to be repaired or coated must be structurally sound. Surface damage such as surface deterioration, cracks and spalls can typically be repaired. However, structural integrity is critical to the overall success of any coating or overlay.

Remove any loose, soft or contaminated materials from the area that is to be repaired or resurfaced. Any existing coatings, sealers, curing agents, bond-breakers, etc. must be removed from the surface providing direct contact with the original substrate to assure adhesion. Typical preparation methods may include scraping, water blasting, sand blasting, shot blasting, cleaning and degreasing.

Note: All expansion joints must be honored. Clean, repair and honor all control joints and expansion joints during entire application process, or mark them for honoring after application. Clean and treat all cracks and spalls in accordance with manufacturer's specifications.

Before any Super-Krete products are applied over concrete, the slab must be free of sealers, any type of curing compounds and bond-breakers. Always refer to the **Super-Krete Products Surface Preparation Guide** for surface testing, cleaning, preparation and porosity requirements prior to applying S-9300 Bond-Kote.

Arizona Polymer Flooring recommends that all Super-Krete cementitious overlay product applications, over concrete, first be treated with S-1300 Pene-Krete.

Important: S-9300 Bond-Kote is designed to penetrate the surface for a permanent bond. Any sealers or coatings which will interfere with this penetration must be removed. The surface shall be cleaned thoroughly of all contamination by scrubbing the surface with S-12000 Heavy Duty Degreaser™ over the entire surface for approximately 15-30 minutes then, completely rinse with clean water two times. Allow the surface to dry another 24 hours before applying other coatings or sealers. Extremely oily surfaces can be pre-heated with a propane torch to bring the oil to the surface, followed by degreasing and water-blasting. Repeat this process until the surface is free of oily substances.

MIXING

The amount of water required will depend on the desired consistency and the repair or re-surface requirements. Determine in advance whether the required mix will be for resurfacing, trowel, squeegee, vertical application or 1/8" texturing.

Manual - For Mixing Small Quantities: Add 4 quarts of clean water to a container such as a 5 gallon pail and add 1 (50 lb.) bag of S-9300 Bond-Kote to the water while agitating with a hand drill and paddle mixer attachment. Add additional water while mixing if needed until the desired consistency is achieved. Allow material to sit for approximately 5 minutes to allow water to saturate the fine aggregate. Add additional water as needed or when a flowable consistency is desired. For vertical or overhead repairs, a dry slump consistency is recommended (add less water).

Mechanical- For Mixing Large Quantities: Add desired amount of S-9300 Bond-Kote units to the plaster mixer and add clean water until the desired consistency is achieved. Allow material to sit for approximately 5 minutes to allow water to saturate the fine aggregate. Add additional water as needed.

Note: For a dryer mix, add less water or more product. For a wetter mix, add more water and less product. The proper consistency is based on the applicator's choice of application.

- For hand-troweled applications or for applying to vertical and overhead surfaces, a dryer mix is recommended.
- For screeding, a more fluid mix is recommended.
- For squeegee mix, a flowable mix is recommended (4 to 6 quarts of water).
- For 1/8" overlayment, a fluid mix is recommended. The appropriate amount of water is necessary for S-9300 Bond-Kote to maintain the desired thickness. Do not over-dilute S-9300 Bond-Kote with water. Over-dilution is visible when sand fines begin to separate from the mix, causing them to settle to the bottom. 3/8" or larger gravel can be used as an extending material and to increase the strength of the mix.

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APPLICATION

S-9300 Bond-Kote can be applied by squeegee, trowel, sprayer, broom, brush or gauge rake. In every application, a light spray of water should be applied to all concrete substrates prior to application of S-9300 Bond-Kote. Doing this will open the pores of the concrete and allow the S-9300 Bond-Kote to create a co-adhesive bond. If the product becomes unworkable, simply spray a mist of water over the area and it will become workable.

Repairs/Patching: Any structural repairs, crack treatments, patches and deep fills should be completed prior to resurfacing or squeegee applications. Do not perform repairs monolithically with resurfacing procedures.

Squeegee Coats: A squeegee mix should be used when resurfacing in thin layers. A squeegee coat can be applied as thin as 1/32" using the S-18000 24" Squeegee. Mix S-9300 Bond-Kote thoroughly to desired consistency. Dampen surface to be coated with clean water. Evenly distribute material by pouring it onto surface, spreading the material from one side of the working area across to the other in a 6"-8" wide pour. Follow the spread immediately using a squeegee to spread the material from side to side while working towards the nearest joint or end of work area. For even application, ensure the squeegee is held at 45° to the direction of travel. If S-9300 Bond-Kote begins to dry, leave a residue or curdle on surface, spray the area with a light mist of water and squeegee the material until the surface is uniform. Two or more applications are typically required to achieve a smooth, uniform finish.

Broom Finish: To achieve a broom finish, apply the first coat with squeegee and broom finish the last application by pulling a stiff-bristled broom that is turned upside-down so that the bristles face away from direction of travel and pull the material in the direction of desired finish. Dragging the broom in an upside-down position allows broom to drag across the surface evenly without pulling the material and clumping.

Trowel Finish: After 1st coat, following directions above, material may be troweled to desired finish or texture. A trowel finish can be achieved by using a trowel instead of a broom to finish the second coat.

1/8" Overlay Texturing: When texturing S-9300 Bond-Kote with stamp or texture tools, gauge the product to 1/8" thickness using a gauge rake. With a 1/8" application, the appropriate amount of water is necessary to maintain the desired thickness. 4 to 6 quarts of water per bag of material may be necessary to achieve the necessary consistency.

After mixing and pre-wetting surface, distribute material by pouring out of a 5 gallon pail onto the surface, spreading from one side of the working area across to the other in a 6"-8" wide pour. Spread immediately with gauge rake, ensuring that cams are set to 1/8" depth, remove gauge marks with the S-16000 Flex Smoother™. Immediately after smoothing, spray S-1710 Liquid Release Agent™ (do not use any other type of release agent) over S-9300 Bond-Kote. Spray texture mats with S-1710 Liquid Release Agent and begin to texture/stamp S-9300 Bond-Kote being careful not to move mats when lifting to change location.

Allow stamped surface to dry overnight. When dry, detail surface by sanding lightly to remove any high spots. Re-establish all saw-cut and expansion joints, especially if they weren't protected during resurfacing process. Wash surface using S-200 Super-Scrub™ and rinse with clean water. If color is desired apply S-9500 Color Stain™.

GENERAL INFORMATION

S-9300 Bond-Kote is ready-mixed and only requires the addition of water when mixing. This product requires no primer, bonding agents or cementitious underlayments to ensure a bond. S-9300 Bond-Kote cannot be removed from the concrete substrate once cured without removing the substrate that it is attached to. S-9300 Bond-Kote is a high-strength product that is very resilient and durable.

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Coverage

1 (50 lb.) bag of Bond-Kote will typically cover:
300 sf in a squeegee coat (1/32") application
50 sf at 1/8" thick application.

**Coverage rates will vary, these are approximations only. Actual coverage will vary due to substrate conditions and surface porosity.*

Cure Time 72 hours

Compressive Strength 6500 psi at 7 days

Bond Strength 235 psi

Tools Required

5 Gallon Pail	Pump Sprayer
Drill	Mixing Paddle
S-18000 Squeegee	Trowel(s)
S-16000 Smoother	Straight edge
S-19000 Gauge Rake	
Diamond Crack Chaser and grinder	

Shelf Life

5 Years when properly stored.

Storage

Store in a dry place. Do not expose to moisture.

Packaging

50 lb. bags / 50 per pallet

Appearance

Gray or White, in dry powdered form

Odor

None

Specific Gravity

3.15

Percent Volatiles by volume

0

CAUTION

Keep away from children. Do not take internally. Always use safety gloves, appropriate eye protection, and appropriate OSHA/NIOSH approved respirator in areas with poor ventilation and when exposed to spray mist both indoors and outdoors. If ingested, seek medical attention immediately.

LIMITATIONS:

Super-Krete Products are to be applied only when surface temperatures are above 55°F and rising and not to exceed 100°F. Super-Krete Products are not to be applied when precipitation is expected within 24 hours following completion of application. Do not allow materials to freeze. Each Super-Krete product acts as an inherent part of a proven system. Super-Krete Products are professional, contractor grade products. Training in the use of these products is available. Consult a Super-Krete Products representative for information and assistance locating approved contractors in your area or for training class dates.

MOISTURE VAPOR EMISSIONS PRECAUTIONS:

All concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride testing in compliance with ASTM F1869, or relative humidity probe testing in compliance with ASTM-F2170, to determine if excessive levels of vapor emissions are present before applying any coatings. Arizona Polymer Flooring offers **S-1300 Pene-Krete®** for cementitious overlay products and **VaporSolve® Moisture Remediation** systems for resinous floor coatings. Consult our technical service department. Arizona Polymer Flooring and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions.

WARRANTY:

Arizona Polymer Flooring guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. ARIZONA POLYMER FLOORING MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. Arizona Polymer Flooring shall not be liable for damages caused by application of its products over concrete with excessive moisture vapor transmission or alkalinity. Arizona Polymer Flooring shall not be liable for any injury incurred in a slip and fall accident. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product.

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